





"We are so grateful to have the opportunity to work with such an outstanding company."

N. Griffith. Executive Vice President. Habitat for Humanity of San Antonio.

Commenting on AmaTerra's community service project in San Antonio, Bexar County, Texas











"The report is awesome... really enjoying it."

W. Godby. Historic Resource Coordinator.

White Sands Missile Range.

Commenting on AmaTerra's cultural resource report on the Mule Peak instrumentation site.









Company Brief

AmaTerra Environmental, Inc.

Environmental regulatory experts for government agencies, civil engineers, and private developers seeking an unrivaled personal touch and focus on communication.



Headquarters

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Federal Certifications: WOB, WOSB, EDWOSB, SB

State/Local Certifications: SBE, WBE, DBE, HUB



Primary Region of Operations

Texas and the American southwest with experience nationwide



Core Services:

National Environmental Policy Act (NEPA) Studies and Documentation, Cultural Resource Management (Terrestrial and Marine Archaeology, Historic Resources, Historic Structural Analysis and Assessment, Geophysical Remote Sensing), Biological Resources, Wetlands, Site Investigations, Permitting and Compliance, Geographic Information Systems, and Interactive Outreach





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AmaTerra Environmental, Inc.

About IIs

AmaTerra Environmental, Inc. is an award-winning environmental consulting firm headquartered in Austin, Texas. The firm is federally certified as an economically-disadvantaged, woman-owned small business (EDWOSB), among other Federal, State, and Local certifications. Our staff of respected environmental professionals provides a variety of environmental coordination and compliance-related services covering a wide range of disciplines. Clients include Federal, State, and Local governments, as well as private industry clients across the United States.

The word **Ama**is Cherokee for
water and **Terra**is Latin for earth

Our Company

From our headquarters in Austin, Texas, AmaTerra's staff of archaeologists, historians, architectural historians, biologists, ecologists, and NEPA specialists contribute to projects spanning the Continental United States (CONUS), Alaska, Hawaii, and Guam. With satellite offices in Las Cruces, New Mexico, and San Antonio and Carrollton, Texas, our team is ready to go... any time... anywhere!

Our Philosophy

Effective communication is imperative to success. It is in that skill that we stand head and shoulders above the rest. We research, collect, and analyze the information that is most important, and effectively present that information with your project needs in mind. You can rely on us to be confident professionals who will be **your most dedicated advocates.**

Our Heritage

AmaTerra was founded as a woman-owned small business in 2011. In 2012, AmaTerra acquired Ecological Communications Corporation (EComm), a highly-successful Austin firm established in 1998. Along with retaining all staff and professional experience, AmaTerra was able to expanded our capabilities through this acquisition. With a history of highly-successful and award-winning projects that range from high-profile excavations at Zilker Park in Austin to NEPA Environmental Assessments on military installations, our reputation remains our strongest asset.

Our Success

Our superlative work is exemplified through a multi-award-winning heritage that includes the *National Award of Merit* from the *American Association for State and Local History*, three individual *Texas Historical Commission Award of Merit* recipients, and a Fort Bliss Annual *Environmental Quality Award*. Our greatest success, though, is receiving that second, third, fourth... and hundredth new project from our client. **Our most effective marketing tool is a job well done.**

North American Industry Classification System *(NAICS)* Codes for AmaTerra Environmental, Inc.

541620	Environmental Consulting Services (Primary)
541310	Architectural Services
541330	Engineering Services
541712	Research and Development in the Physical, Engineering, and Life Sciences (Except Biotechnology)
541720	Research and Development in the Social Sciences and Humanities
541990	All Other Professional, Scientific, and Technical Services
562910	Remediation Services
712120	Historical Sites AmaTerral

ENVIRONMENTAL, INC.

AmaTerra Certifications

Federal

AmaTerra meets the criteria for Federal-level self-certification in the following categories:

- Woman-Owned Business (WOB)
- Woman-Owned Small Business (WOSB)
- Economically Disadvantaged Woman-Owned Small Business (EDWOSB)
- Small Business (SB)

State/Local

AmaTerra meets the criteria for State/Local-level certification in the following categories:

- Small Business Enterprise (SBE)
- Woman-Owned Business Enterprise (WBE)
- Disadvantaged Business Enterprise (DBE)
- Historically Underutilized Business (HUB)

"I wanted you to know, this is a great report actually read it cover to cover!" Mark Denton. Texas Historical Commission Commenting on AmaTerra's report on Archaeological Survey of Civilian Conservation Corps Camp at Mother Neff State Park





Our team of diverse specialists covers the desert southwest to the eastern woodlands and everything in between. We apply that subject-matter and operational expertise to every project we are privileged to take part in.

















Terrestrial Archaeology



When the remains of our heritage are buried by the centuries, they become archaeological resources. Historic and prehistoric archaeological materials are important components of our national cultural resources and management of them is a pillar of environmental compliance in many development projects.

Whether your project requires a field survey across the plains, site identification and documentation in a desert environment, or even the protection of storied historic sites downtown,

AmaTerra gives you the unique expertise to handle any cultural resource challenge.

File Searches

Our archaeologists do not always get their hands dirty to comply with legal requirements. AmaTerra's archaeology staff assist many desktop and archive-related searches, including:

- Basic background studies
- Predictive modeling
- Preliminary project coordination

Field Survey

For times when you need experts to inspect the project area, AmaTerra is ready to assist. Whether your Section 106, Antiquities Code, or private due diligence project is a fraction of a mile or thousands of acres, AmaTerra performs survey services including:

- Pedestrian surface inspection
- Shovel testing
- Backhoe trenching
- Site identification and recording
- Regulatory coordination

Excavation

With field and laboratory facilities available for any scale investigation, AmaTerra's archaeologists are ready for detailed onsite excavations and analysis. AmaTerra provides:

- NRHP/SAL Eligibility
 Coordination
 - Research design preparation
- Site excavation

- Artifact analysis
- Curation processing

Specialty Services

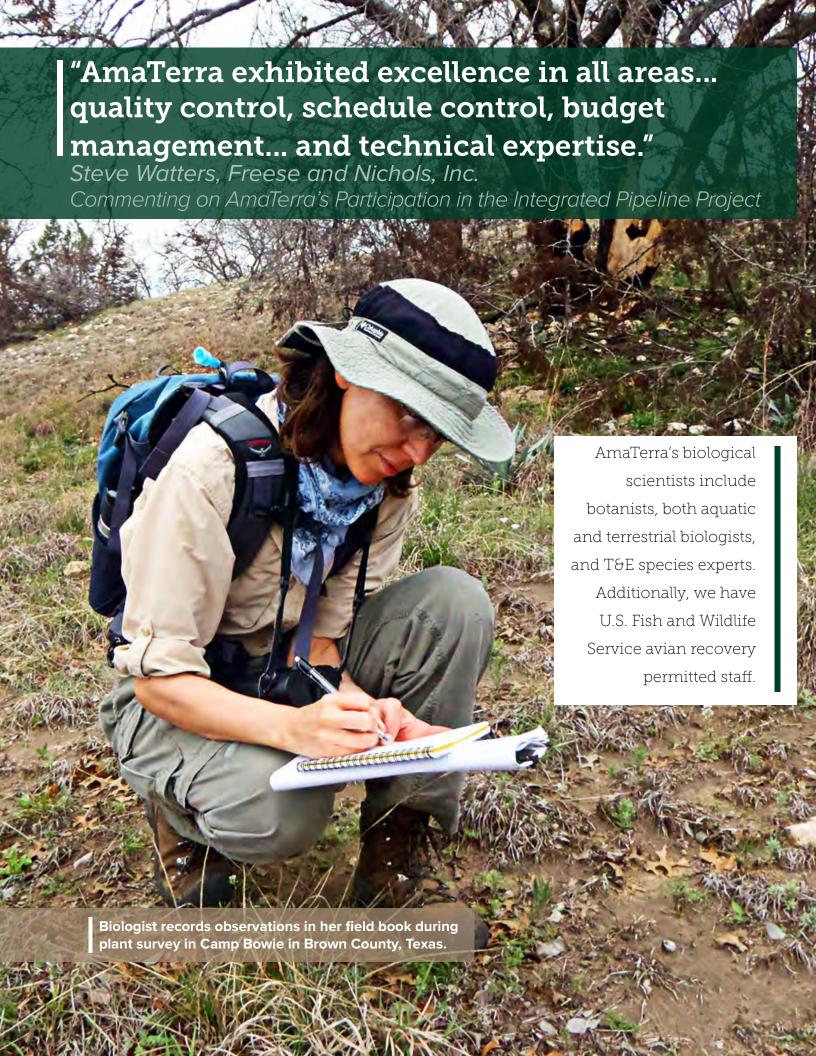
Along with more standard projects, AmaTerra's archaeologists know how to handle challenging and unusual assignments as well.

AmaTerra staff have experience in:

- Burial exhumations
- Cultural Resource
 Management Plans (CRMPs)
- Cold War-era site documentation
- Storied/Historic Site

 Documentation (such as the

 Texas Governor's Mansion)
- Public Outreach



Biological Resources



Impacts to plants and animals and where they live can ultimately affect your project. AmaTerra's biological staff includes botanists. terrestrial and aquatic biologists, and ecologists who can identify those resources and what those effects may be. These professionals are experienced in conducting *presence* or absence surveys including those for threatened and endangered species (T&E), comprehensive tree and vegetation inventories, and baseline studies. Our biological professionals are there to handle any of your project concerns whether they swim, crawl, fly, or sprout.

Threatened and Endangered (T&E) Species

It is important to know where T&E species fit in project planning. Our staff routinely performs surveys for individual T&E species and/or their habitats to ensure that there are no surprises along the way. We can help you find ways to achieve your project's development and management goals while complying with all of the environmental laws that apply.

Floral Surveys =

Floral surveys and inventories help identify plant communities, rare species, and areas of high risk to development. By knowing the plant communities in your project area, we can assist in meeting permit requirements for specific locations and providing valid avoidance alternatives to keep your project moving forward.

Biological Assessments -

A Biological Assessment (BA) may serve multiple purposes, but the primary role is to analyze and document actions that may affect protected resources. Our staff is experienced in determining whether proposed actions will have an effect on a species of concern or on critical habitat. The BA documents conclusions, and the rationale to support those conclusions, regarding the effect of a proposed project on a protected resource.

Aquatic Mussel Survey -

Regulations in the State of Texas have called for increased effort to identify and preserve threatened and endangered riverine mussels from adverse impact during public development projects. AmaTerra is one of the few environmental teams in the region that includes certified divers who have experience with submerged mussel collection survey and relocation.

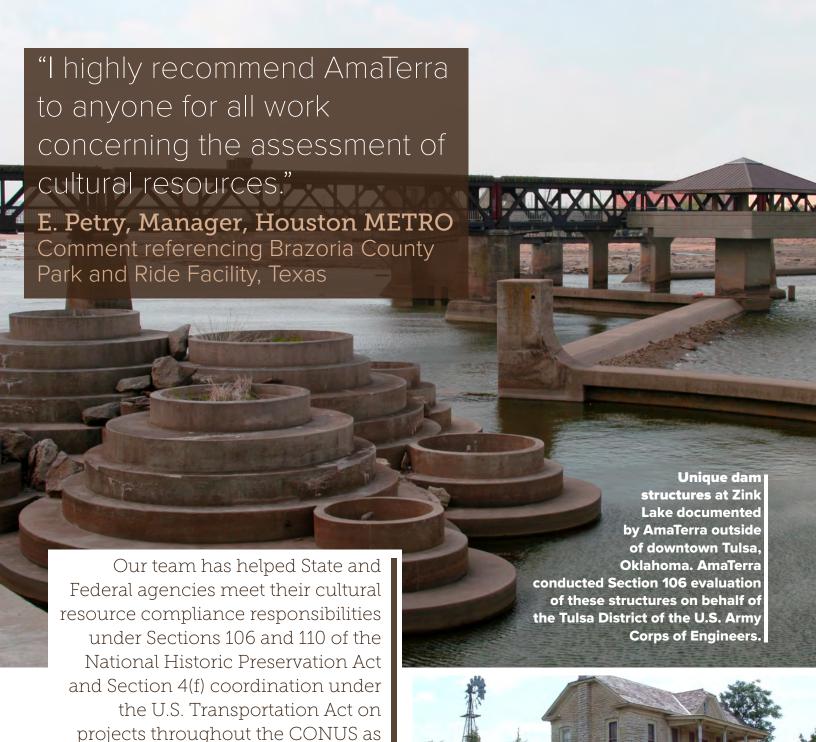








Historic Building Report







well as Alaska, Hawaii, and Guam.







Historical Resources



When people think about cultural resource impacts, they may focus on archaeological sites and forget about the built environment. Buildings, structures, objects, and districts are also key components of our history and culture. Is that rustic out-building historically significant or is it just an old shed? Rely on AmaTerra's discerning and respected architectural historians, historians, and one of the most experienced historic architects practicing in the region to know the difference.



Historic Architecture

AmaTerra's historical resources program employs one of the few historical architects practicing in the region. Our in-house Registered Architect is TxDOT Precertified under **Category 2.9.1.** With such expertise, AmaTerra can provide:

- Measured drawings
- Historic Structure Reports
- Investment Tax Credits
 - (ITCs)

Field Survey =

With thousands of miles of survey and thousands more historic-age resources documented, AmaTerra is ready for your project — large or small. Turn to AmaTerra for:

- Historic map interpretation
- Field survey and resource evaluation
- National Register of Historic
 Places (NRHP) eligibility
 assessment

Resource Documentation =

AmaTerra has extensive experience with:

- National Register of Historic Places (NRHP) nominations
- Large- and medium-format photography
- Preservation Plans
- Cultural Landscape Plans

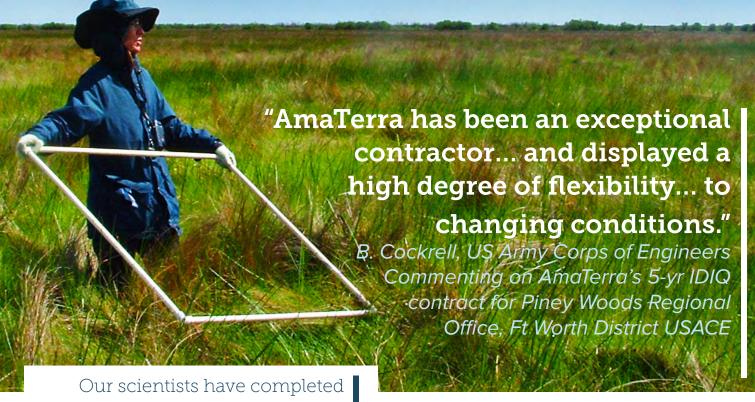
- HABS / HAER documentation
- Section 4(f) evaluation and coordination
- Cultural ResourceManagement Plans (CRMPs)

Historical Services

Rely on AmaTerra for specialized historical services, including:

- Complete deed and title research
- Detailed archival research
- Oral histories/interviews
- Expert witness testimony for cultural resources
- Interpretive materials (signs, brochures, interactive, etc.)

AmaTerra wetlands specialist prepares to set a vegetation sampling square during wetland mitigation work for Abaco Operating, LLC.'s natural gas wells in the Moody National Wildlife Refuge.



U.S. Army Corps of Engineers
Wetland Training and Delineation
courses, along with specialty
courses on Field Indicators for
Hydric Soils and Federal Wetland/
Water of the U.S. Regulatory
Policy. AmaTerra's senior wetland
staff includes a certified Master
Naturalist Wetland Delineator.











Wetlands



The Clean Water Act (CWA) is fundamental to protecting our nation's water resources. The objective of the Act is to restore and maintain the chemical, physical, and biological integrity of the nation's waters. Determining CWA protection for streams and wetlands can be confusing and complex. AmaTerra can help guide you through this process with trained, experienced personnel who can identify, delineate and mitigate impacts to Waters of the U.S. and wetlands. We have our boots handy and we're ready to go wading.



Wetlands are areas where water covers the soil or is present either at or near the surface of the soil all year or for varying periods of time during the year. These areas provide important habitat for waterfowl, fish, and other aquatic organisms, as well as recreational and tourist activities. Our wetland scientists have been trained by the U.S. Army Corps of Engineers to identify the presence/absence of wetland areas and, when necessary, delineate them. If a wetland area is present, our scientists can assist and prepare the appropriate level of mitigation to help reduce project impacts while maintaining good water quality.

Waters of the United States

Waters of the U.S. are regulated by the CWA and include all waters that are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce. Waters of the U.S. can include interstate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds. AmaTerra staff have extensive experience in determining whether the water bodies in your project area are jurisdictional and fall within the CWA regulations.

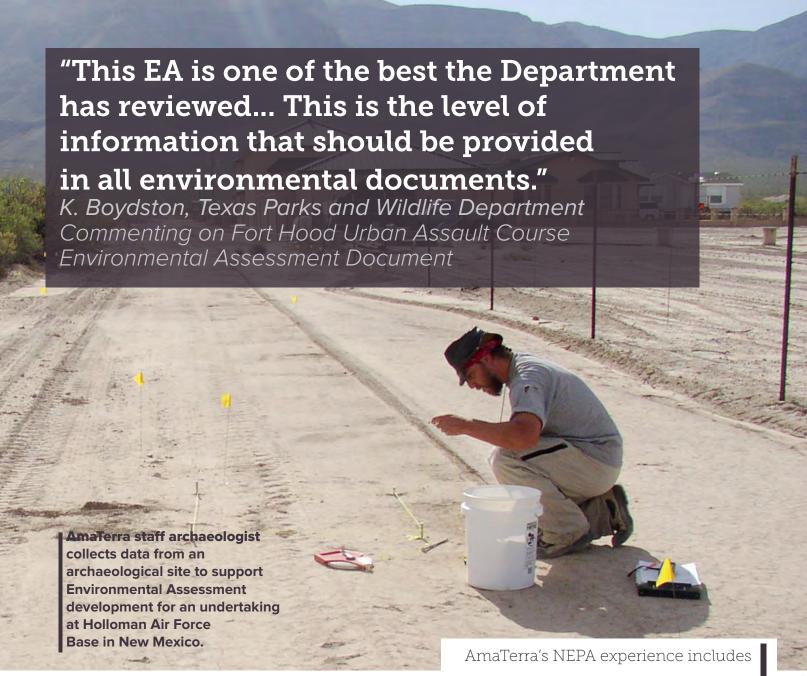
Permitting Services •

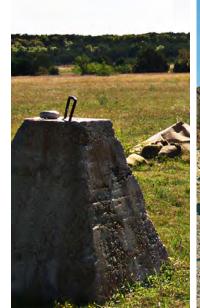
Our staff is experienced in preparing both nationwide and individual Section 404 permits applicable to most construction projects. AmaTerra scientists can assist you by preparing the permit application, developing the appropriate documentation to support the permit decision, providing an analysis of the environmental impacts of the project, and formulating the appropriate mitigation plan and measures. We have worked extensively with multiple U.S. Corps of Engineers Districts, covering the entire permitting process.













AmaTerra's NEPA experience includes parks, transportation, and military facilities. Experience matters in these long, intensive studies that encompass widely differing resources and varying interests of the communities.





NEPA



The National Environmental Policy Act (NEPA) is our country's basic national charter for protection of the environment. NEPA procedures ensure that environmental information is available to the public before decisions are made and before actions are taken. Our NEPA staff are experts with more than 30 years of experience in developing accurate scientific analysis, preparing concise and comprehensive documents, conducting public involvement, and coordinating with Federal, State, and Local regulatory entities for documents ranging from Environmental Impact Statements to Categorical Exclusions.

Service

Scoping

It is essential to identify issues early in the NEPA process. Scoping does just that. AmaTerra has a proven track record of identifying and analyzing issues that may impact your project. We incorporate milestones, budgets, and schedules to meet project and regulatory agency needs.

Baseline Studies and Alternatives Analysis

With AmaTerra's stable of technical experts in fields ranging from cultural resources to biology to hazardous waste, AmaTerra gathers all of the data necessary for analyses in your NEPA study. Using that information, we develop and evaluate the Proposed Action and potential alternatives.

Documentation

Rely on the experts at AmaTerra to prepare a professional, concise, *legally defensible* NEPA document. Whether a Categorical Exclusion (CE), Environmental Assessment (EA), or Environmental Impact Statement (EIS), we are dedicated to your project from initial scoping to the final Record of Decision (ROD) or Finding of No Significant Impact (FONSI).















have assisted a variety of public and private clients in identifying Recognized Environmental Conditions (RECs).







Site Investigations, Permitting, and Com

Technology and chemistry have done wonders to advance how we live and work. These improvements, however, come with serious responsibilities associated with the management of waste products. AmaTerra personnel can provide the expertise essential to managing multidisciplinary projects. Our relevant experience includes *Phase I* and Phase II Environmental Site Assessments. site investigations, and permitting and compliance. Additionally, our field and management staff have completed 40-hour and annual refresher courses for health and safety training required under OSHA.

Phase I Environmental Site Assessments (ESAs)

Our Phase I ESA projects have addressed properties ranging from undeveloped lots to complex industrial facilities, and also include HazMat Initial Site Assessments (ISAs) for roadway projects. As part of its ESAs, AmaTerra attempts to ground-truth all facilities identified by a database search and provides an analysis of all readily available historical documents.

Site Characterizations

AmaTerra staff routinely perform projects that involve water (both surface and groundwater), soil, and sediment sampling, as well as waste characterization. Our staff have experience with preparation of Phase II ESAs, Sampling and Analysis Plans, Quality Assurance Project Plans, and Health and Safety Plans.

Permitting and Compliance •

AmaTerra is experienced in conducting a number of specialty studies related to environmental permitting and compliance issues. Such studies include Pollution Prevention Plans (P3), Stormwater Pollution Prevention Plans (SW3P), above-ground storage tank integrity testing, water quality sampling, Total Maximum Daily Load (TMDL) studies, Index of Biotic Integrity (IBI), Low Flow Validation Studies, Chlorophyll-a analyses, and others.





Marine archaeology is a specialized service offered here at AmaTerra. We are full of enthusiasm at every opportunity to go out and get on – or under – the water.







Marine Archaeology



Development projects are not limited to dry land. Cultural resource laws do not stop at the shoreline either. AmaTerra's staff of professionals include a marine archaeologist with expertise developed through background studies, surveys, and excavation projects in the Gulf of Mexico, Portugal, the Azores, and Oklahoma. From simple file searches to towed magnetometer and side scan sonar surveys or other specialized investigations, AmaTerra can identify and attend to marine cultural resources when they are found under the waves.



Services

File Search and Coordination

AmaTerra can assist project managers in determining a project area's potential archaeological significance. In addition, we can effectively navigate your project through Antiquities Code of Texas and National Historic Preservation Act processes.

Inshore and Near-Shore Field Survey -

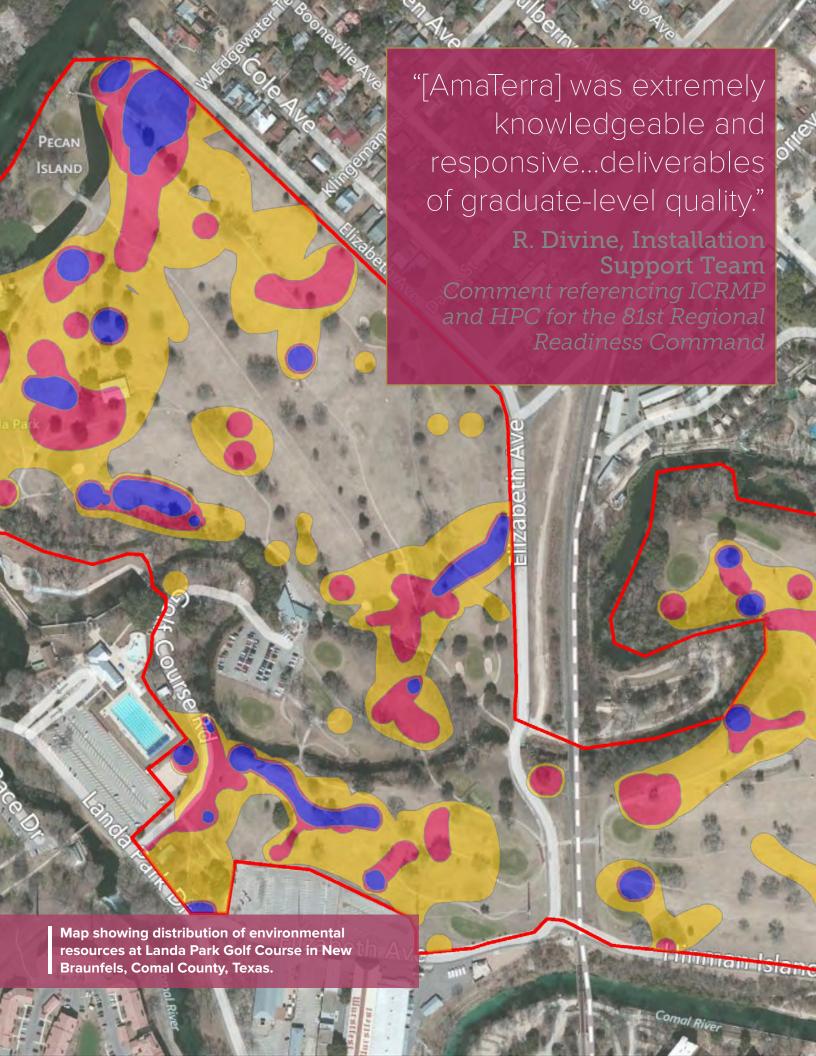
AmaTerra's in-house nautical archaeologist can work with you to develop a marine survey plan, guide the field effort, and coordinate the findings on your behalf. Let us assist you with general due diligence and regulatory compliance survey needs as well.

Submerged Prehistoric Archaeology

AmaTerra's marine archaeology staff have extensive experience in investigating terrestrial prehistoric sites. Combined with our marine expertise, AmaTerra can effectively negotiate the challenges of submerged prehistoric resources.







Geographic Information Systems



A project's success can hinge on how well information is conveyed. Geographic Information System (GIS) is an effective tool in turning complex and abstract concepts into data that makes sense. It is an essential component of our work here at AmaTerra. In fact, more than almost any other discipline, GIS contributes to virtually all that we do. Our digital mapping expertise can bring a world of information to you by harnessing gigabytes of data. If your project requires survey planning, probability modeling, or even three-dimensional space analysis, our GIS team has you covered.

Digital Mapping and Presentation

As the saying goes: "A picture is worth a thousand words...". Save on having to write all of those words down by turning to AmaTerra's GIS team to prepare maps, figures, and other visual media to complement any project description or narrative summary.

Digital Data Collection and Analysis

Ranging from soils mapping and historic imagery to archaeological site probability models, historic site boundaries, and endangered species habitat limits, AmaTerra can integrate essential data into your project in a variety of ways.

Specialty Services

Sometimes unique projects need unique solutions. Use AmaTerra's GIS team to develop three-dimensional land surface TIN models, complete digital viewshed analyses, and other less-common deliverables.







Late-day photograph taken during the AmaTerra team's baseline environmental studies for the United States Border Fence Project.



Other Specialty Serv





ices

Environmental professionals turn to remote sensing and geophysical investigations when (for one reason or another) they can't — or don't want to — dig. With magnetometry and ground-penetrating radar, AmaTerra can *virtually* dig beneath the ground surface without a shovel. On its own or in conjunction with other investigative methods, remote sensing can be a fast and efficient contribution to your next environmental analysis.

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Many projects require the public to see a personal benefit from it. Providing museum visitors, classrooms, and other groups with a tangible representation of the artifacts, features, and historical contexts is a great means of gaining that necessary support. Turn to AmaTerra to recreate models (either digital or actual) of artifacts to display and touch or to design and deploy immersive, interactive displays that brings the public into a project area's history and heritage.

AmaTerra's staff has a keen eye for leveraging new and exciting advances in technology to improve the quality of public outreach for many agency-funded projects. That drive has brought AmaTerra to lead the industry in digital outreach initiatives centered around digital interactive publications. Have your project's viewed — and remembered — across the globe with us.

Magnetometery •

Using the latest cutting-edge magnetometers, gradiometers, and magnetic susceptibility meters, AmaTerra's staff can quickly and efficiently define archaeological site boundaries and activity areas without ground disturbance.

Ground Penetrating Radar

Sending a radar wave into the ground and being there to 'catch' it when it bounces back can be a great way to find subsurface features such as buried utilities, prehistoric hearths, and burials. Our remote sensing specialists have you covered!

Pictured here

AmaTerra archaeologist conducts gradiometer survey at CCC Camp 817, Mother Neff State Park. Coryell County, Texas.

Artifact Reproductions

AmaTerra staff can generate precise cast reproductions or digital prints of artifacts, features, and buildings studied during field investigations that can be used in demonstrations or on a museum display well into the future without risking damage to the original. The sky is the limit!

Interactive Museum Displays

Modern-day museum visitors want something that is dynamic and exciting and that brings them into the experience. AmaTerra has designed engaging, interactive displays for deployment in museums from initial concept to installation.

Pictured here

AmaTerra archaeologist prepares a cast of a pair of stone axe blades recovered during survey in East Texas.

Interactive Publications/Books

Why rely on a static sheet of paper to engage and excite your audience when almost instantly you can send your message to the world? AmaTerra can turn the world's electronic devices into platforms to share your project, complete with interactive videos, slideshows, models, quizzes, and more. Scan the QR code to download our recent, award-winning publication, *Peering Through the Sands of Time* from the Apple iBooks store free of charge!

Pictured here

One of the three-dimensional models of modern Caddo ceramic vessels the user to manipulates at will in the *Peering Through the Sands of Time* iBook.







Scan here with your cell phone's QR "The AmaTerra Update". No cell phone? No problem, on your computer go to the bottom of our website, amaterra.com, to sign up.

















